JUVYU

S/137/62/000/002/038/14 A006/A101

15.2240

AUTHORS:

Koval*skiy, A. Ye., Vrzheshch, Ye. Ya.

TITLE:

The effect of the temperature of manufacturing single-phase tantalum tungsten carbide on the incubation period of decomposition

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 28, abstract 20226 ("Sb. tr. Vses. n.-i. in-t tverdykh splavov," 1960, no. 2, 129-134)

TEXT: The methods of X-ray and metallographical analysis were used to investigate the effect of temperature of preparing a single-phase solid solution of TaC-WC on the duration of the incubation period and the dispersity of phases after decomposition. The specimens were prepared by two stages: a) roasting at 1,800°C of a WC and Ta205 mixture with carbon black; b) repeated pressing and sintering of the carbide powders obtained at temperatures required to attain complete solutility, and above. It is shown that an increase of the preheating temperature prior to annealing extends considerably the incubation period. For instance, a specimen roasted at 1,850°C (1.5 hours) decomposed after 1 hour instance, a specimen roasted at 2,350°C did not decompose after annealing at 1,400°C, but a specimen roasted at 2,350°C did not decompose after 48 hour annealing at 1,600°C. The dispersity of carbide phases is the higher

Card 1/2

s/137/62/000/002/038/144 A006/A101

The effect of the temperature ...

the greater the oversaturation of the solid solution. Decomposition of the composite TaC-WC carbide up to equilibrium concentrate occurs in a jump after the incubation period. This is confirmed by the absence of partially decomposed crystals. In individual cases some crystals were observed, where the decompositions of the composition of th tion had not as yet started, together with cases of complete decomposition.

I. Brokhin

[Abstracter's note: Complete translation]

Card 2/2

\$/736/60/000/002/005/005

AUTHORS: Kovaliskiy, A. Ye., Vrzhesnch, Ye. Ya.

Effect of the temperature of preparation of single-phase TaW carbide TITLE:

on the incubation period of decomposition.

Vscsoyuznyy nauchno-issledovatel skiy institut tverdykh splavov. SOURCE:

Shornik trudov. no. 2. Moscow, 1960. Tverdyye splavy. pp. 129-134.

The paper reports an investigation of the effect of the temperature of preparation of a single-phase solution of WC in TaC on the duration of the incubation perion and of the dispersion of the phases after decomposition. It supplements the work of i.f. Kitaygorodskiy and N. M. Pavlushkin (Steklo i keramika, no. 11, 1955) on the solbility of WC in TaC which showed that the decomposition occurs with a jump with an incubation period and is accompanied by a breaking down of the grains of the socia solution. Specimens were made of a mixture of Ta and W oxides (in varying associtions) and lamp black which, in a first stage, were calcined at 1800°C. Second stage pressing and sintering at temperatures at and significantly above the solid-solution equilibrium is apperature produced specimens suitable for X-ray and microscopic inspection; the specimens were not ground or polished in order to avoid decomposition due to deformation. Details of the preparation and heat-treatment process are tabulate it way snow that an increase in the sintering temperature of the single-phase constant to roasting lengthens the incubation period. **Card** 1/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961220007-3

Effect of the temperature of preparation. . .

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Example: A apecuanou state and at 1850°C for 1.5 and will decompose with a con-14000, whereas a specimen sintered at 23500 for 1.5 hrs will not decompass even after 48 her at 16000. A comparison of the sinturing temperatures of the specimens with the convenied that We and folloty was now temperature suggests that the rate of decomposition duction, a such a converge execut of the distorting temperature over the equilibrium temperature. This were, the degree of timeness of the solid-solution. crystals and the dispersion of the precipitating phase increases with an enlargement of the supersaturation. In some instances of weak roasting (14000, 15 min) microstructural nonuniformities among various grains and indications of the presence of intragranular boundaries in some gravis are observed, including grains of pure THO #Abstracter's note: Should probably read "TaC" # in which the phenomenon appears to be the manifestation of a submicrostructural diversity and not the result of any decomposition. Slowever, 2.4 hour extended roasting resulted in the appearance of two carbide phases, rainely, the predecomposition phase with a lattice period a=4.35 % and the 1400° equilibrium phase with a=4.42 %. Thus, the nonuniform grain structure reflects different stages of decomposition. X-ray lines corresponding to two carbide phases with different lattice periods were not blurred in a single instance. There are 6 figures, 1 (unnumbered) table, and 4 references (3 Russianlanguage Soviet and I German).

ASSOCIATION: None given.

Card 2/2

ACCESSION NR: AP4023414

8/0048/64/028/003/0601/0606

AUTHOR: Vrzhetsiono, A.

TITLE: Magnetocrystal anisotropy of the intermetallic compound Mn5Ge3 Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May-5 June 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.23, no.3, 1964, 601-606

TOPIC TAGS: magnetic anisotropy, manganese magnetic moment, paramagnetic anisotropy, persistence, manganese germanium compound

ABSTRACT: The magnetic anisotropy of Mn5Ge3 (hexagonal type D8g structure) was measured. A 5 mm diameter spherical "pseudo-single crystal" was employed, i.e., a polycrystalline material consisting of large crystals with nearly parallel hexagonal axes. Hagnetization curves were obtained in the directions of greatest and least susceptibility by a ballistic method at temperatures from 90 to 360°K and magnetizing fields up to 11 350 Oe. The curves of magnetization versus temperature at a fixed magnetizing field taken in the direction of minimum susceptibility for fields less than 9000 Oe showed a slight rise of magnetization with temperature to a maximum near the Curie point: This rise is ascribed to the fact that magnetization in

Card 1/2

ACCESSION NR: AP4023414

this direction is effected by rotation against the anisotropy forces, and the anisotropy decreases with increasing temperature. The magnetocrystal anisotropy energy was calculated from the area between the magnetization curves taken in the directions of maximum and minimum susceptibility. This decreased monotonically from a value (extrapolated) of 3.74 x 10⁶ erg/cm³ at 0^oK to zero at 313^oK. The Curie point is 300^oK; the anisotropy thus persists into the paramagnetic region. The saturation magnetization extrapolated to 0^oK was 140 emu/g. From this a value of 2.47 Bohr magneton was calculated for the mean magnetic moment of Mn. This is in agreement with measurements of K.Kanematsu (J.Phys.Soc.Japan 17,85,1962). "The author expresses his gratitude to S.S.Szczeniowski for his valuable discussions and for reading the manuscript." Orig.art.has: 2 formulas, 3 figures and 1 table.

ASSOCIATION: Fizicheskiy institut Pol'skoy Akademii nauk (Physics Institute, Polish Academy of Sciences)

SUBMITTED: 00

DATE ACQ: 10Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 002.

OTHER: 013

 $Card^{2/2}$

where a and C are constants.

The curve of the temperature function of magnetocrystal anistropy

(A. Vrzhetsiono, Isvestiya Akademii Nauk SSSR, Seriya Fizichaskaya, Vol 28,

1964, page 601), experimentally determined, varifies the correctness of the
above formulas.

(Cord 1/2

L 37677-65 ACCESSION NR: APSO10777

ASSOCIATION: Fizicheskiv institut Pol'skov AN. Poznan (Institut of Physics.

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S/137/62/000/002/074/14 A006/A101

AUTHOR: Vrzhashch, E. I.

TITLE: Investigating the effect of tempering temperature on the properties

of a cyanided layer in "20" grade steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 34 - 35, abstract

21207 ("Izv. Irkutskogo s.-kh. in-ta", 1960, no. 16, 105 - 113)

TEXT: The author investigated the effect of N on tempering resistance of a cyanided grade "20" steel layer, containing in \$\mathcal{g}\$: C 0.25; Si 0.35; Mn 0.49; P 0.025; S 0.047. The nature of changes which occur in a quench-hardened cyanided layer, subjected to tempering at 100 - 500°C, is similar to changes observed in quenched high-carbon steels tempered at these temperatures. N raises the resistance of a cyanided layer against tempering. There are 14 references.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1

KOVAL'SKIY, A.Ye.; VRZHESHCH, Ye.Ya.

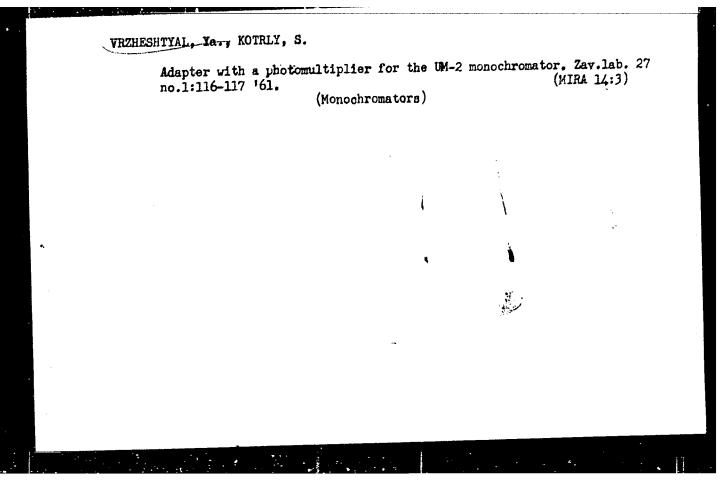
Effect of the temperature of preparing a one-phase tentalumtungsten carbide on the incubation period of decomposition.

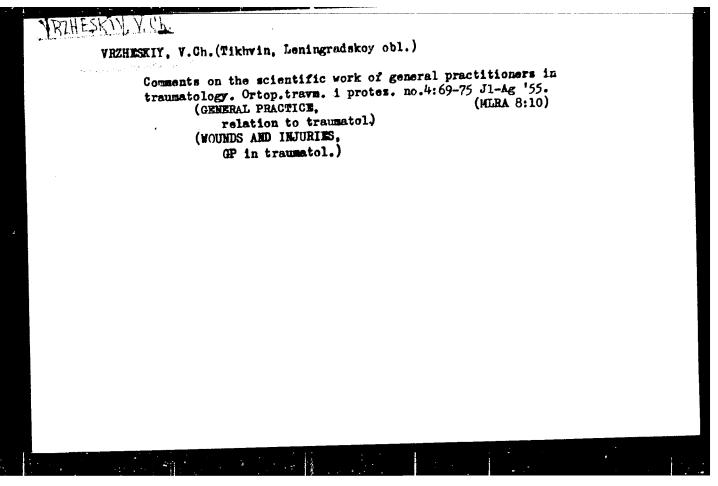
Sbor. trud. VNIITS no.2:129-134 '60. (MIRA 15:2)

(Tan'. lum carbide)
(Heat of formation)

EWT(m)/EWP(t)/ETI WH/JW/JO L 40056-66 IJP(c) ACC NR: SOURCE CODE: UR/0226/66/000/007/0076/0083 AP6025942 AUTHOR: Chaporova, I. N.; Rybal chenko, R. V.; Vrzheshch, Ye, Ya. ORG: All-Union Scientific Research Institute of Hard Alloys (Vsesoyuznyy nauchnoissledovatel skiy institut tverdykh splavov) TITLE: Synthesis and properties of (Ti, W, Cr)C carbides 21 21 21 SOURCE: Poroshkovaya metallurgiya, no. 7, 1966, 76-83 earbide, titanium, carbide, tungsten carbide, chromium carbide, TOPIC TAGS: ainter carbida etructure, carbide property ABSTRACT: The effect of adding up to 25% Cr3C2 on the properties of (Ti, W)C carbide with a constant TiC:WC ratio of 35:65, was investigated. The initial (Ti, W, Cr)C carbides were synthesized from $TiO_2 + WC + Cr_2O_3 + C$ powders in hydrogen at temperatures from 2573 K for pure TiO_2 + WC to 1923 K for carbide with 25% Cr_3C_2 . The carbide powders were compacted and sintered in vacuum at 2073-2123 K. The porosity of sintered compacts did not exceed 0.2%. An x-ray diffraction analysis revealed that all the alloys have a solid-solution structure with an fcc lattice. With increasing $\operatorname{Cr}_3\operatorname{C}_2$ content oxidation resistance sharply increased. The respective weight loss of (TiW)C carbide and carbide containing 20% Cr_3C_2 was 72 and 3.6% of the original weight in 10 hr at 1270 K. At 20% Cr_3C_2 the resistivity increased by 60%, Young's modulus dropped from 37 to 33 n/m² · 10¹⁰. With increasing temperature from Card 1/2

2 c	90 to 10 ompositi n wettin	NR: AP6025942 Ito 1070 K hardness decreased from about 2500 to 750—800 n/m ² ·10 ⁷ resposition. The coefficient of thermal expansion, bend strength, and expecting with Co in vacuum showed little or no change. Orig. art. has a stables.								
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ANTHORS: Antropos, L. L.; Vromosek, J. J.; Pogrenova, I. S.; Dremova, J. L.; Shkiyanaya, L. V., Sonosekov, Yu. ..

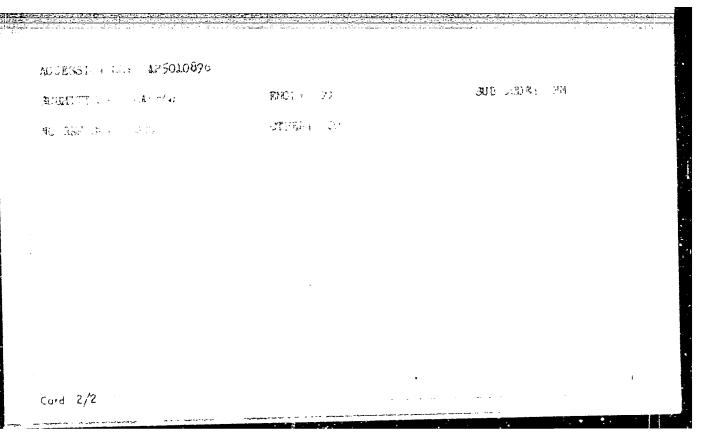
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Specification (1) properties to a method of the properties of the pro

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VRZHOSEK, G. G. [Vrosek, G. G.]; KUDRA, O. K.

Overvoltage of hydrogen evolution on mercury in a ripple current.

Ukr. khim. zhur. 28 no.5:604-610

'62. (MIRA 15:10)

1. Kiyevskiy politekhnicheskiy institut.

(Hydrogen) (Overvoltage) (Electrodes, Mercury)

VRZHOSEK, G.G.; KUDRA, O.K.

Effect of temperature on polarisation in the presence of pulsating current. Ukr. khim. zhur. 26 no.5:562-564 160. (MIRA 13:11)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.
(Polarization (Electricity))

WRZHOSEK, C.C.

KUDRA, O.K., prof., doktor khim, nauk; VRZHOSEK, G.G., aspirant

Part 1: Influence of the intermittent current on the decomposition notential of hydrochloric acid. Izv. KPI 20:52-65 '57. (MIRA 11:3) (Hydrochloric acid) (Electrochamical analysis)

KUDRA, O.K., prof., doktor khim. nauk; VRZHOSEK, G.G., aspirant Part 2: Influence of ripole current on some anode processes. (HIRA 11:3) Izv. KPI 20:66-75 '57.

(Hydrochloric acid) (Polarography)

WIDRA, O.K., prof., doktor khim, nauk; VRZHOSEK, G.G., aspirant

Part 3: Influence of the anion nature on the drop in decomposition potential while using ripple current. Izv. KPI 20:76-89 '57.

(Acids, Organic) (polarography) (MIRA 11:3)

VRZHOSEK, G. G.

VRZHOSEK, G. G.: "Investigation of electrode processes with a pulsating current". Kiev, 1955. Min Higher Education Ukrainian SSR. Kiev Order of Lenin Polytechnic Inst, Chair of Physical and Colloid Chemistry. (Dissertation for the degree of Candidate of Chemical Sciences)

SO: Knizhnava Letopis' No. 51, 10 December 1955

VRZHOSEK, G.G.; KUDRA, O.K. Effect of some admixtures on polarization by a ripple current. Izv. vys.ucheb.zav.; khim.i khim.tekh. 3 no.6:1008-1010 '60.

(MIRA 14:4)

1. Kiyevskiy politekhnicheskiy institut, kafedra fizicheskoy i killoidnoy khimii.

(Polarization (Electricity)) (Electrolysis)

BARMASHENKO, I.B., kand.tekhn.nauk; IGNATENKO, O.Kh. [Ihnatenko, O.Kh.], kand.tekhn.nauk; VRZHOSEK, G.G. [Vrzhosek, H.H.], kand.tekhn.nauk; LAZEBNIK, V.V.

Oxidation of aluminum spray coating on porcelain and its imitation gold finishing. Leh.prom. no.3:34-40 Je - Ag 162. (MIRA 16:2)

1. Kiyevskiy politekhnicheskiy institut (for Barmashenko, Ignatenko, Vrzhosek). 2. Ukrainskiy nauchno-issledovatel'skiy institut stekol'noy i farforo-fayansovoy promyshlennosti (for Lazebnik).

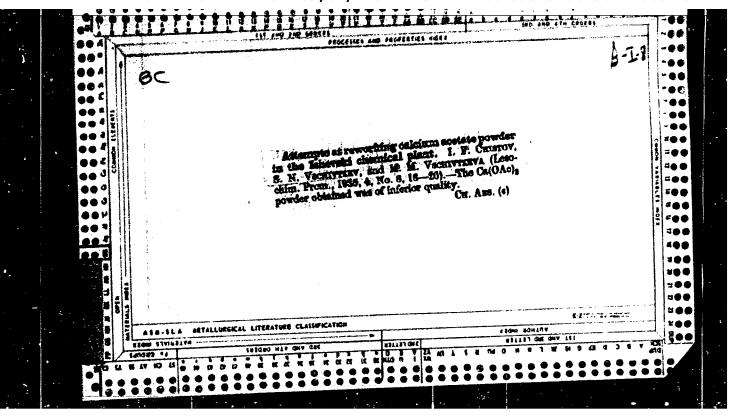
(Aluminum) (Oxidation) (China painting)

DOROFEYEVA, N.G.; VRZHOSEK, N.I.; KUDRA, O.K.

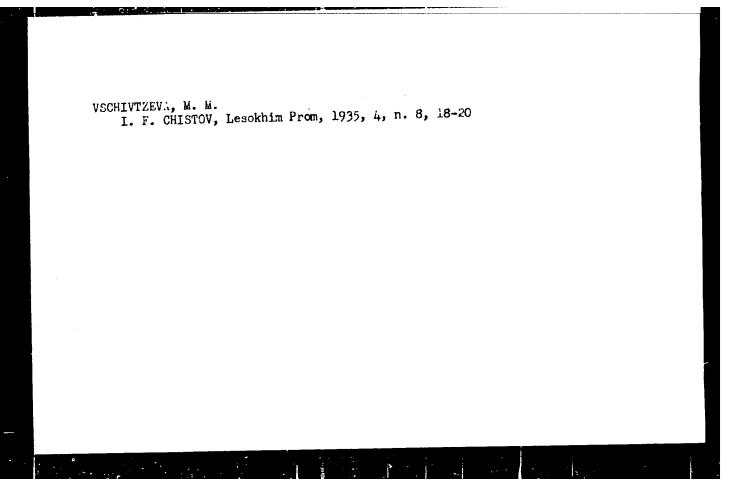
Electrochemical properties of hydrogen bromide solutions in isomyl alcohol. Ukr. khim. shur. 29 no.2:156-161 '63. (MIRA 16:6)

1. Kiyevskiy politekhnicheskiy institut.
(Hydrobromic acid) (Isopentyl alcohol)
(Electrochemistry)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961220007-3



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SECRIVIEN, E. H.
S. 1. LANAZIN, Lecokhim From, 1934, 3, n. 9-10, 35-41;
n. 11, 22-27
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3/058/61/000/008/040/044

9,9100

Vsekhsvyatskaya, I. S., Tsedilina, Ye. Ye. AUTHORS:

TITLE:

The correlation function of the amplifude of signals scattered from

an absolutely rough screen

PERIODICAL: Referativnyy zhurmal, Fizika, no. 8, 1961, 331, abstract 8Zh419 ("Tr. In-ta zemn. magn., ionosfery i rasprostr. radiovoln. AS USSR",

no. 17(27), 1960, 287-291)

The correlation function of the amplitude of signals reflected from TEXT: the ionosphere is calculated taking into account readom as well as oriented motions in the ionosphere. It is shown that for an absolutely rough ionosphere the correlation function is the product of the autocorrelative functions that are obtained in the two limiting cases: when only drift or purely random motion of scattering centers is occurring.

[Abstracter's note: Complete translation]

Card 1/1

VSEKPSVYATSKAYA, I.S.

Calculation of the correlation coefficient in the presence of a regularly reflected wave and a spectrum of a chaotic waves. Geomag.i aer. 1 no.2:213-222 Mr-Ap 161. (MIRA 14:7)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR.

(Ionospheric radio wave propagation)

VSEKHSVYATSKAYA, I.S.

Use of characteristic functions in the processing of drift recordings. Geomag. i aer. 3 no.4:775-777 J1-Ag (MIRA 16:11)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR.

BAYRACHENKO, I.V.; WSEKHSVYATSKAYA, I.S.; MIZERNYUK, A.T.; SHKURDODA, V.F.

Some results of radar observations of meteor activity. Mezhdmar. geofiz. god [Kiev] no.2:75-78 160, (MIRA 14:1)

1. Kiyev State University. (Meteors)

(Radar in astronomy)

5/203/62/002/004/010/018 1046/1246

6.9200 AUTHOR:

Vsekhavyatskaya, I.S.

TITLE:

The statistical properties of the envelope of a signal

and the Poisson noise

Geomagnetizm i aeronomiya, v. 2, no.4, 1962, 712-719 PERIODICAL:

TEXT: The phenomenological model of the Poisson noise, a superposition of independent random elementary pulses, is used in calculating (a) the frequency function for the envelope of the noise and of a sinusoidal signal; (b) the first and second order moments for cases with and without sinusoidal signals; and (c) the general correlation characteristics of any order. All these quantities dethat characterizes the number of pulses pend on the parameter %/d per 1 cps of the transmission band. The characteristic properties of the Poisson noise are observed only for finite $\sqrt[4]{\infty}$ values, whereas when va -, o all the properties pass naturally into the analogous expressions for the Gaussian noise. There is I figure.

Card 1/2

\$/203/62/002/004/010/018 1046/1246

The statistical properties of ...

ASSOCIATION:

Institut zemnogo magnetizma, ionosfery i rasprostra-neniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, the Ionosphere, and Propagation of Radio Waves, AS USSR)

SUBMITTED:

April 19, 1962

Card 2/2

VSEKHSVYATSKAYA, I.S.

Calculation of the phase correlation coefficient of random processes. Geomag.i aer. 2 no.1:86-90 Ja-F *62. (MIRA 15:11)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR.

(Ionospheric research) (Electromagnetic waves)

VSEKHSVYATSKAYA, I.S.

Statistical properties of the simusoidal signal and Poisson noises emvelopes. Geomag. i aer. 2 no.4:712-719 J1-Ag 162. (MIRA 15:10)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR. (Noise)

16.6100

S/203/62/002/001/009/019 I023/I223

AUTHOR:

Vsekhavyatskaya, I.S.

TITLE:

Calculation of phase correlation coefficient in

random processes

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 86-90

TEXT: On the basis of the four-dimensional probability density an integral expression is obtained for the phase correlation function of random processes in the presence of a specular reflected wave and a spectrum of chaotic waves. The four-fold integral obtained can be reduced to a one-fold integral. For the two special cases: $E_c^{2/2\sigma^{2}} \rightarrow \infty$ and $E_c^{2/2\sigma^{2}} \rightarrow 0$, simple expressions

for $\cos \alpha \cos \beta$ and $\beta_{\cos \alpha}(\pi) = \frac{\omega_3 \times \cos \beta - \cos \alpha^{\lambda}}{\cos^2 \alpha}$ are found. A

method which makes possible the calculation of every even correlation and cross-correlation characteristic of the envelope

Card 1/2

S/203/62/002/001/009/019 I023/1223

Calculation of phase correlation ...

amplitude and phase of a random process, is described.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i

rasprostraneniya radiovoln Akademii nauk SSSR (Institute of Terrestrial Magnetizm, Ionosphere and Radiowave Propagation, Academy of Sciences

USSR)

SUBMITTED: December 5, 1961

Card 2/2

WSEKHSVYATSKAYA, Ye.I.; WSEKHSVYATSKIY, S.K.

Bright fireball above Kiev. Aetron.tsir. no.226:13 0 '61.

(MIRA 16:1)

1. Kafedra astronomii Kiyevskogo universiteta.

(Meteors)

BAYBACHENKO, I.V.; MIZERNYUK, A.T.; VSEKISS V YATS KAYA, Yu.S.; SHKURDODA, V.F.

Radar observations of meteoric activity in Jamary-March 1958.

Biul. Kom. po komet i meteor. AM SSSM no.3:15-18 58 (MIRA 13:3)

1. Kiyevekiy gosudarstvennyy institut. (Meteors)

VSEKHSVYATSYY, V.

Astronomical Observatory, Cdessa, U.S.S.R.

Commission pour l'Etude Physique des Cemetes.

SO: Transactions of International Astronomical Union, 1950, Unclassified

VSEKHSVYATSKIY, S. [Vsekhsviats'kyi, S.], doktor fiz.-mat.nauk, prof.

In the Arctic regions. Wanks 1 shyttis 9 no.10:51-54 (MIRA 13:2)

0 '59. (Arctic regions)

VSEKHSVYATSKIY, S. [Vsekhsviats'kyi, S.], doktor fiz.-matem.nauk, prof.

Stars draw closer. Nauka i zhyttia 12 no.4:25-26 Ap '62.

(MIRA 15:8)

(Astronomy)

VSEKHSVYATSKIY, S.K.

Possibility of the existence of a ring of comets and meteorites around Jupiter. Astron.zhur. 39 no.2:290-302 Hr-Ap '62.

(MIRA 15:3)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta.

(Jupiter (Planet)) (Comets) (Meteorites)

BERENSHTEYN, F.Ya.: KOPELOVICH, A.G.: VRUBLEVSKIY, S.V.

Effect of nicotinic acid on the hyperglycenic activity of some trace elements. Dokl.AN BSSR 3 no.2:74-76 F 59.

(MIRA 12:5)

1. Predstavleno akudemikom AN BSSR V.A.Leonovym.

(NICOTINIC ACID-PHYSIOLOGICAL EFFECT)

(TRACE ELEMENTS-PHYSIOLOGICAL EFFECT)

(HYPERGLYCEMIA)

VSEMISVYATSKIY, S. K.

"A century of the main astronomical observatory USSR," Astron. Zhur., 16, No. 6, 1939.

Report U-1518, 23 Oct 1951

WSEKHSVYATSKIY, S. K.

Kiev Astronomical Observatory (-1945-)

"On 'local' and 'world' magnetic perturbations,"

Iz. Ak. Nauk SSSR, Geograf. i Geofiz., No. 5-6, 1945

VSEKHSVYATSKIY, S.K.

Addendum to the catalog of absolute magnitudes of comets. Part III. Comets 1880-1900; some characteristics of the distribution of absolute magnitudes of comets. Publ. Kiev.astron.obser.no.2:3-21 '48. (MLRA 7:2) (Comets)

VSEKHSVYATSKIY, S.K.

Observations of Nova Aquilae 1945. Publ.Kiev.astron.obser.no.2:
(MLRA 7:2)
(Stars, New)

VSEKHSVYATSTI, S. F.

Vsekhsvyatskiy, S. K. - "Investigation of the general trilliance and positions of comets at the Kiev astronomical observatory", Publikatsii Kiyevsk. astron. observatorii (Kiyevsk. gos. un-t im. Shevchenko), No. 2, 1948, p. 95-99.

S0: U-30/2, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

VSEKHSVYATSKIY, S.K. Kiev Observatory expedition for observation of the solar eclipse of July 9, 1945. Publ. Kiev.astron.obser.no.2:101-104 48. (MIRA 7:2)

(Astronomy-Observations) (Eclipses, Solar--1945)

VSEKHSVYATSKIY, S. K.

Mbr., Kiev Astronomical Observatory, -c1948-.

"Brightness of 1880-1900 Comets and Certain Peculiarities in the Distribution of the Comets' Absolute Magnitudes," Astron. Zhur., 25, No. 6, 1948.

BR-52085091

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961220007-3

ACCESSION NR: AP4032146

8/0254/64/000/004/0049/0052

AUTHOR: A (Candidate of physico-mathematical sciences, Professor Vsekhsvyats'ky*y, S.

TITLE: What has been learned about the sun and the solar system

SOURCE: Nauka i zhy#ttya, no. 4, 1964, 49-52

TOPIC TAGS: solar system, planet, space flight

ABSTRACT: This non-technical article describes the development of knowledge of the solar system during the past 400 years and the resulting changes in ideas about its origin. A table of distances and periods of rotation and revolution is given, and it is shown how the relative positions and speeds of the planets are taken into consideration in planning flights of space vessels. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

Cord 1/A

Photographic stellar magnitudes of Ikeya's comet (1963a).
Astron.tsir. no.268:3-4 N '63. (MIRA 17;4)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta.

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VSEKHSVYATSK	IY. S. K. Prof		# F498685	* * S	
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Solar wind and solar corpuscular streams. Geomag. 1 aer. 4 no.2:328-332 Mr-Ap '64. (MIRA 17:4)

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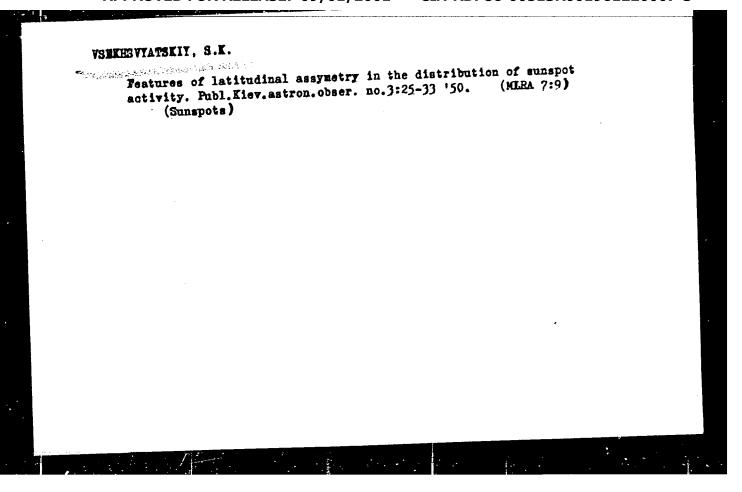
VSEKHSVYATSKIY, S. K.

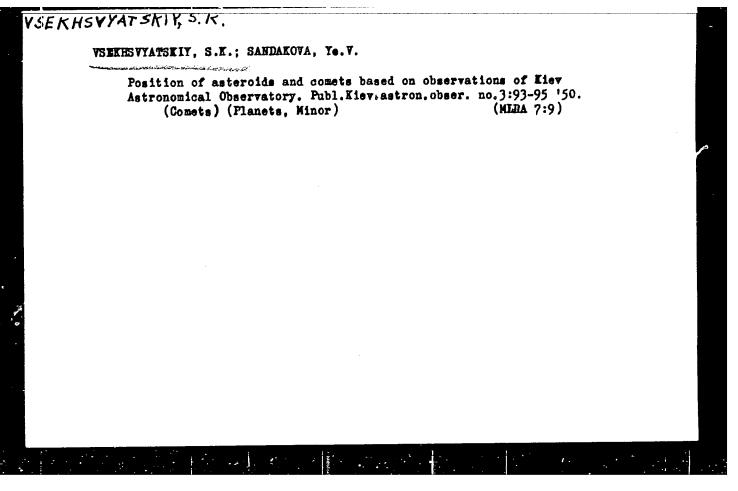
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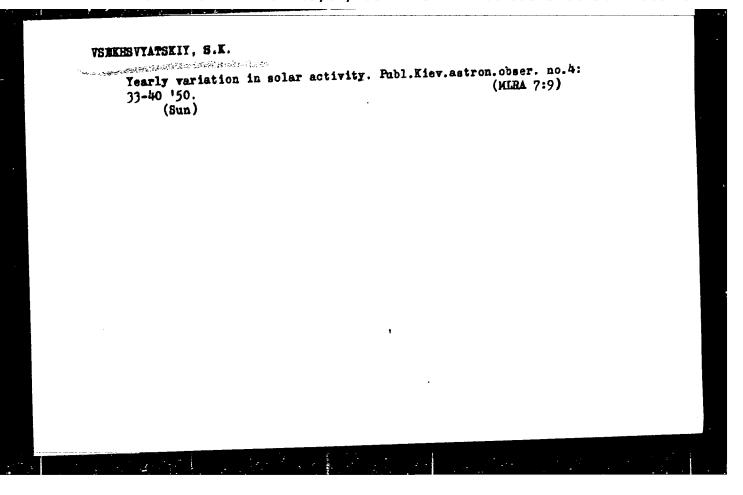
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PA156T10

USSR/Astronomy - Comets
Photometry

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"The Short-Periodic Comet Wolf I and Its Genesis," S. K. Vsekhsvyatskiy, Kiev Astr, 16 pp

"Astron Zhur" Vol XXVII, No 1

Discusses photometry of comets and Bobrovnikov's methods, absolute magnitude of Wolf I between 1885 and 1945, brightness of Wolf I in various phenomena, astronomical table of observations on Wolf I, disruption of periodic comets and their peculiarities of motion, and possible sources of comets in the solar system. Submitted May 49.

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USSR/Astronomy - Computing Instruments Jan 51

"Astronomy in the Service of Humanity," S. K.
Vsekhsviatskyy

"Nauka i Zhizn'" No 1, pp 19-21

Short historical review. Computational work of
Leningrad Inst of Theoretical Astr using machines
is described as completely independent of foreign
contributions. Solar observatories are established
in Pulkovo and Kiev.

VSHEKHSVYATSKIY, S. K.

USSR/Astronomy - Comets

Jan/Feb 52

"Periodic Comets and Their Origin," S. K. Vshekh-svyatskiy, Astron Obs, Kiev State U

"Astron Zhur" Vol XXIX, No 1, pp 63-75

Discusses work by J. H. Oort (cf Bull Netherlands, Vol XI, No 408, 1950) on perturbation of comet orbits by near stars and by planets. Considers comets as originating from some explosions on planets or from complete disintegration of some planet. Suggests that not only Jupiter, but also other planets are sources of comets. Received 30 Mar 52.

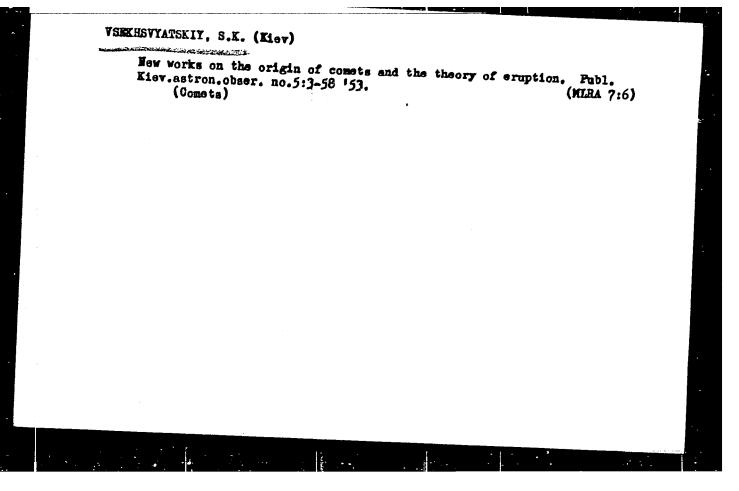
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BUGOSLAVSKAYA, N.Ya; VSEKHSVYATSKIY, S.K.; MIKHAYLOV, A.A.;
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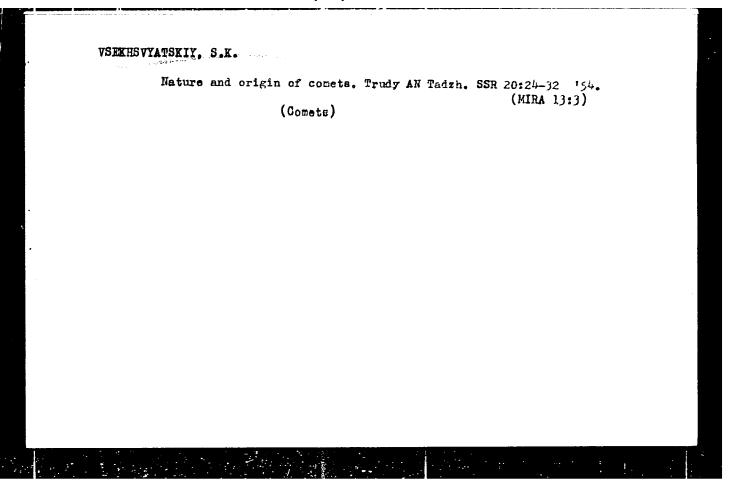
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BRONSHTEN, V.A.; BUGOSLAVSKAYA, Ye.Ya; BUGOSLAVSKAYA, N.Ya; VSEKHSVYATSKIY, S.K.; DAGAYEV, M.M.; LEPSKIY, M.M.; SIVKOV, S.I.; TER-OGARAZOV, V.T. MIKHAYLOV, A.A., redaktor; RAFHLIN, I.Ye., redaktor; TUMARKINA, H.A., tekhnicheskiy redaktor

[Solar eclipses and observations on the solar eclipse of June 30, 1954] Solnechnye zatmenija i ikh nabliudenie; k solnechnomu zatmeniju 30 ijunia 1954 g. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1954. 223 p. (MLRA 7:10)

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VSEKHSVYATSKIY, S. K.

AID P - 378

Subject

: USSR/Astronomy

Card 1/2

Pub. 8 - 8/12

Author

: Vsekhsvyatskiy, S. K.

Title

The same state of the same of the same state of On the Change of Brightness of the Comet Encke-Baklund

Periodical: Astron. zhur., v. 31, 3, 281-293, My-Je 1954

Abstract

: A general review of photometric values made by Golechek for the appearances of the Encke-Baklund comet before 1918 is presented. Average curves of brightness of the comet are constructed for its appearances before the perihelion (1820, 1872 and 1908 epochs) and after the perihelion (1838, 1878, 1908 epochs). Parameters of the average curves are found, which show not only the systematic decrease in the comets brightness, but also the possible increase in course of time of the mean exponent of the power in the formula of the change in brightness: $I = I_0 / r^2 \Delta^2$. The existence of a considerable deviation of the change in . The existence of a considerable deviation of the brightness curve of the comet from the gradual law is confirmed. The question of the

Astron. zhur., v. 31, 3, 281-293, My-Je 1954

AID P - 378

Card 2/2 Pub. 8 - 8/12

possible effect of the phase angle showed after study that this effect could not be ascertained for Encke-Baklund's comet. Observation data for its latest appearances are collected and the mean brightness curve for the epoch 1935 constructed. The absolute secular change in size of the comet is brought out. Parameters of the formula $H_{\Delta} = H_0 + Z(r^n - I)$ are computed. The formula coincides with B. Levin's formula based on the act of desorption of the solid rock masses in the comet nucleus into gas. A table is given of the absolute sizes of the comet in its numerous appearances. 9 tables and two graphs illustrate the text. 6 Russian references (after 1943) of a total of 17 Russian and non-Russian.

Institution: Department of Astronomy of Kiev State University

Submitted : January 24, 1953

WEINHEWYATSKIY, S.K.

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VSEKHSVYATSKIY, S.K.; NIKOL'SKIY, G.M.

Observations of the lunar eclipse of January 18/19, 1954. Astron.tsir. no.146:5-7 F 154. (MLRA 7:6)

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VSEKHSVYATSKIY, Sergey Kenstantinevich, prefesser; MEKENTSEV, V.A., redakter;

[Hew we learned about the universe] Mak permavalas' vselennaia. Izd. 2-ee, perer. Heskva, Ges.izd-ve tekhnike-teeret. lit-ry. 1955. 46 p. (NIRA 9:5) (Nauchne-presvetitel'naia biblieteka, ne.8) (Astronomy-History)

SOV/124-57-5-5264

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 22 (USSR)

Baum. F. A., Vsekhsvyats'kiy, S. K., Stanyukovich, K. P. AUTHORS:

On the Explosive Processes of Powerful Volcanic Eruptions (O TITLE:

vzryvnykh protsessakh pri moshchnykh vulkanicheskikh izverzheni-

yakh) in Ukrainian

PERIODICAL: Nauk. zap. Kiyvs'k. un-t, 1955, Vol 13, Nr 7, pp 123-130

The paper analyzes the question of the sources of energy of the ABSTRACT:

gigantic explosive processes observed on numerous occasions during extremely powerful volcanic eruptions (Vesuvius, Fujiyama,

"Sangay", "Papandayang", Osamayama, Tamboro, "Gunung-Gelungung", "Kazegvina", Krakatau). It is shown that under conditions which exist at extreme depths of the earth there are accumulated tremendous quantities of H2, CO, CH4, etc. At elevated pres-

sures and temperatures these are explosive mixtures high in energy and readily detonated. Various readiless are analyzed and an evaluation of the energy released is made. The total amount of the energy

of the explosion is calculated which is required to eject solid rocks of several scores of cubic kilometers in size (Krakatau, August 27,

Card 1/2

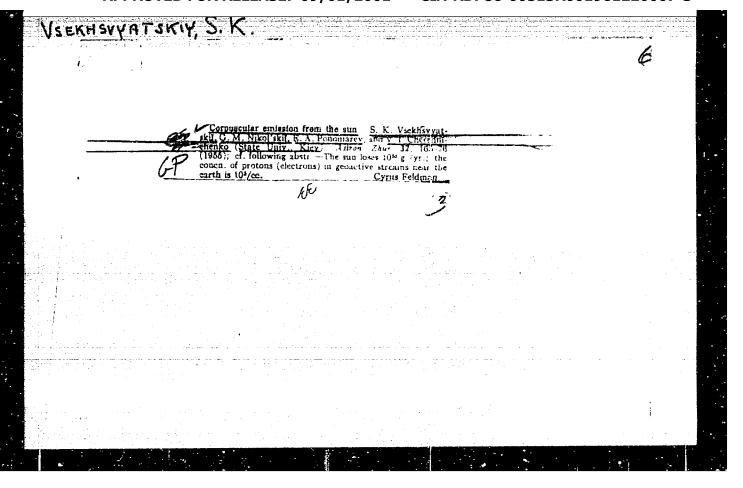
On the Explosive Processes of Powerful Volcanic Eruptions

SOW/124-57-5-5264

1883). It is also shown that the velocities attained by some individual rocks may exceed $8 \, \mathrm{km/sec.}$

From the résumé

Card 2/2



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Variation Publ. Kie	Variation in the brightness of Encks-Backlund's comet. (MIRA 9:12) Publ. Kiev. astron. obser. no.?:31-44 *56.					
(Comet, Encke's)						
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Observations in Kiev of the partial solar eclipse of December 14, 1955. Astron.tsir. no.166:2-3 Ja 156. (MIRA 9:7)

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Observations of Bakharev-MacFarlane-Krienke's comet (1955 f).

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